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Main Site Layout Review

Eastern Pacific Cloud Aerosol Precipitation Experiment

EPCAPE

15 February 2023 - 14 February 2024

Scripps Research Pier, La Jolla, CA

Eastern Pacific Cloud Aerosol Precipitation Experiment (EPCAPE) :

- AMF1 Campaign (post-TRACER)
- February 15, 2023 (1-year study)
- Primary site is Scripps's Ellen Browning Memorial Pier
- Radar/guest site 3 km away on Mt. Soledad

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Campaign Timeline

TRACER Ends	September 30, 2022
TRACER to EPCAPE Transition	October – November 2022
Installation Complete	January 14, 2023
Data Verification	Jan 15 - Feb 14, 2023
Campaign Operations	Feb 15, 2023 - Feb 14, 2024

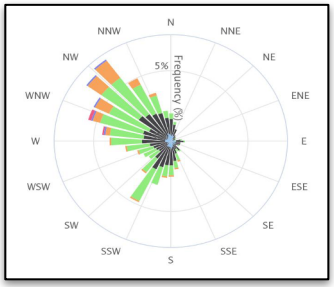
Main Deployment Site

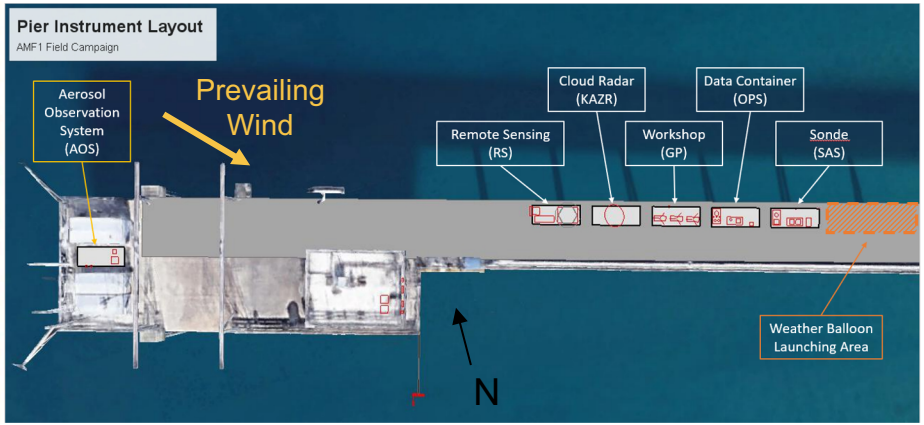
Scripps Pier (M1)

- Scripps Oceanography Research Pier
- Main site for AMF1 facility + Balloon launches
- Shared resource, limited footprint

Pier Information:

- Height: 10m above mean low level water
- Width: 7 m
- Length: 330 m
- Prevailing wind NW

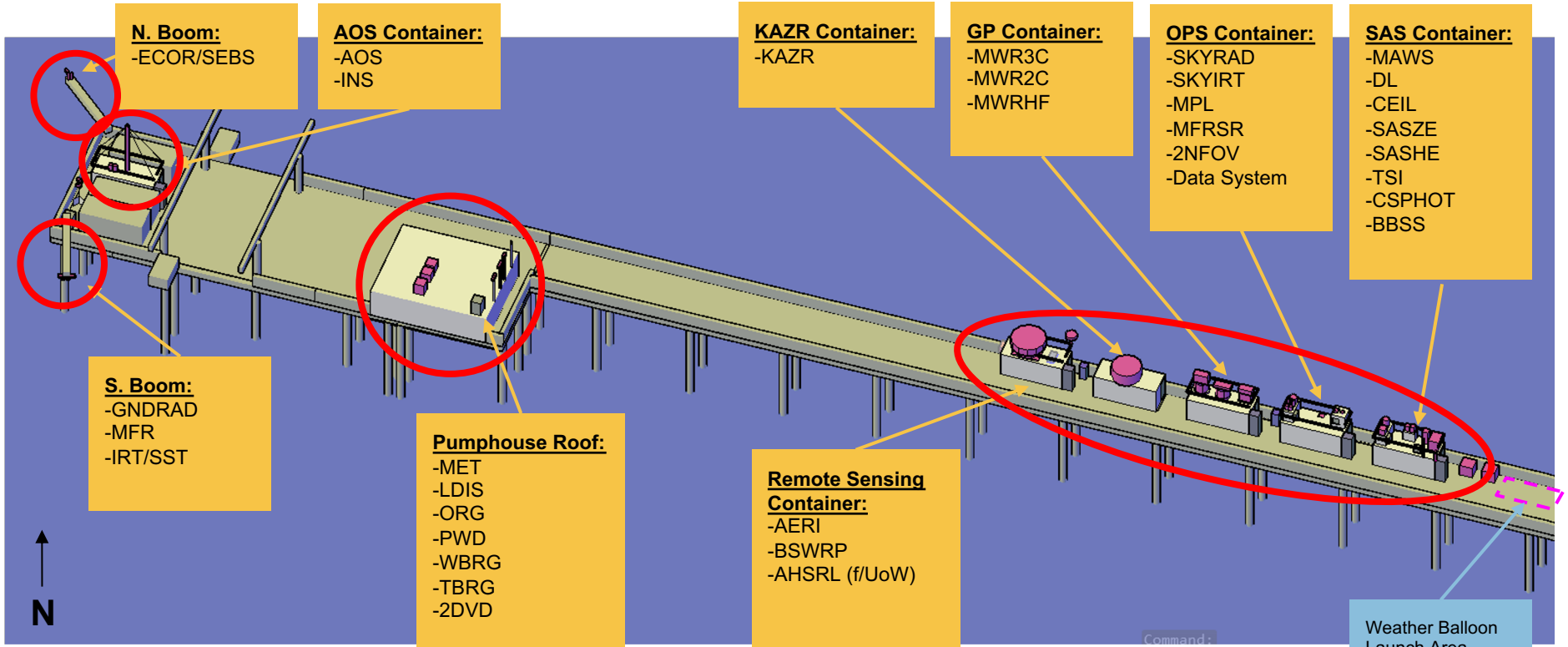




Main Site Layout Overview

Scripps Research Pier, La Jolla, CA

ARM



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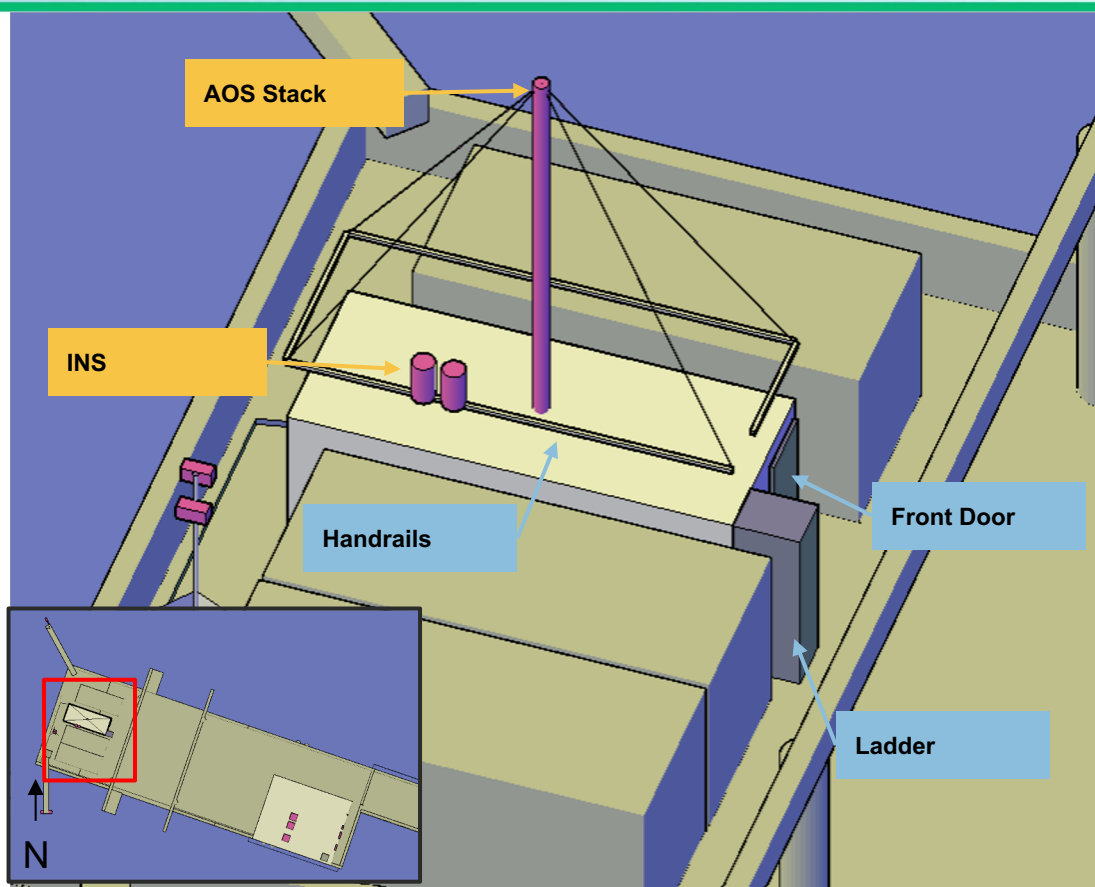
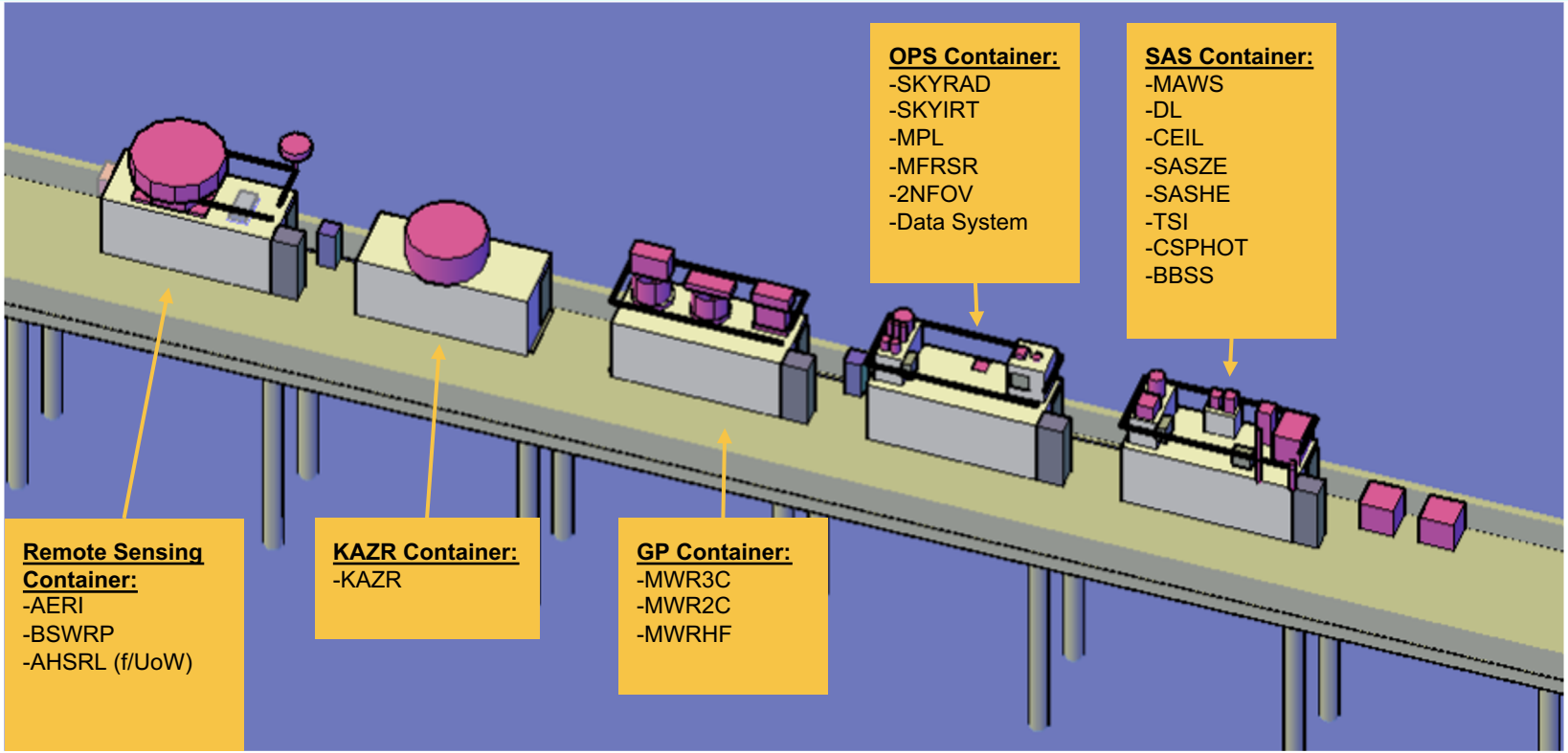
AOS Shelter

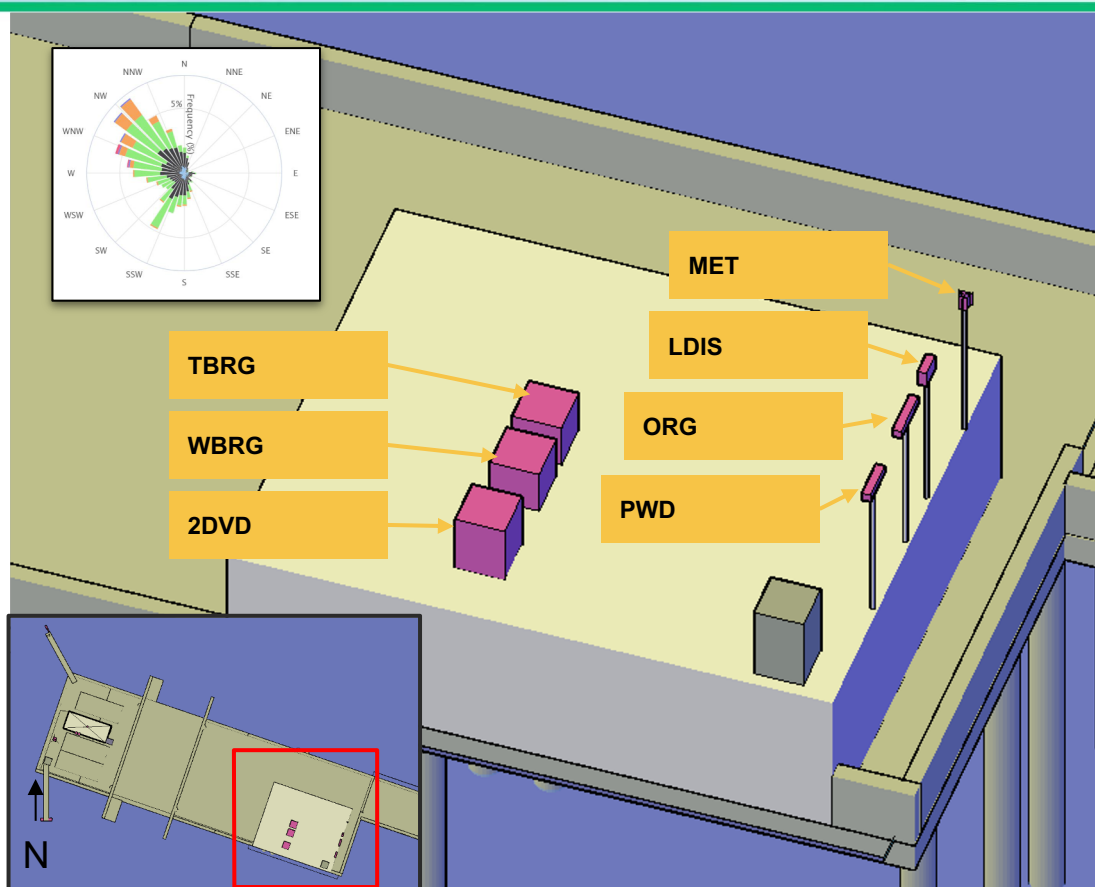
- AOS at end of Pier



Main Shelter Cluster

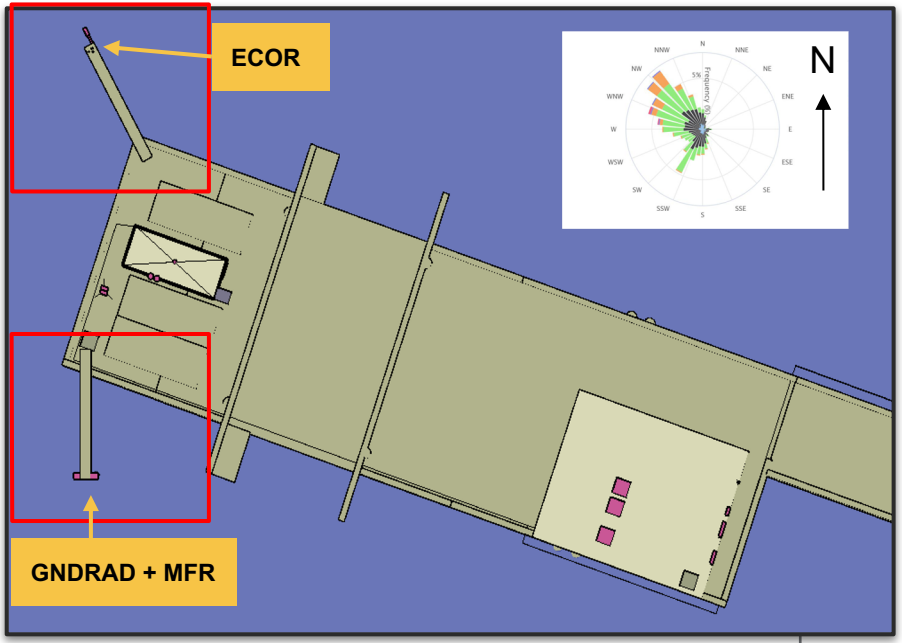


Pumphouse Roof: Field Instruments

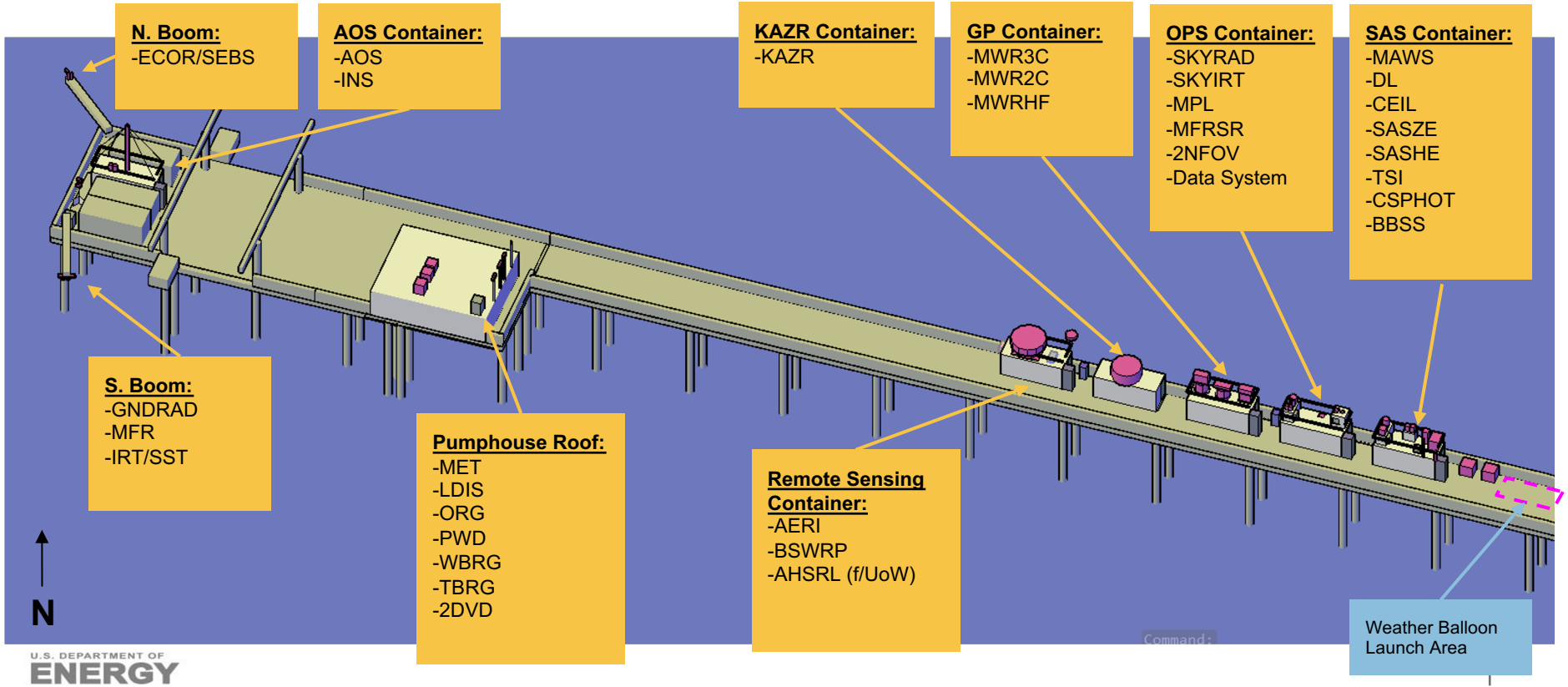


Pier Booms

- ECOR/SEBS
- Downlooking radiometers



Questions & Comments



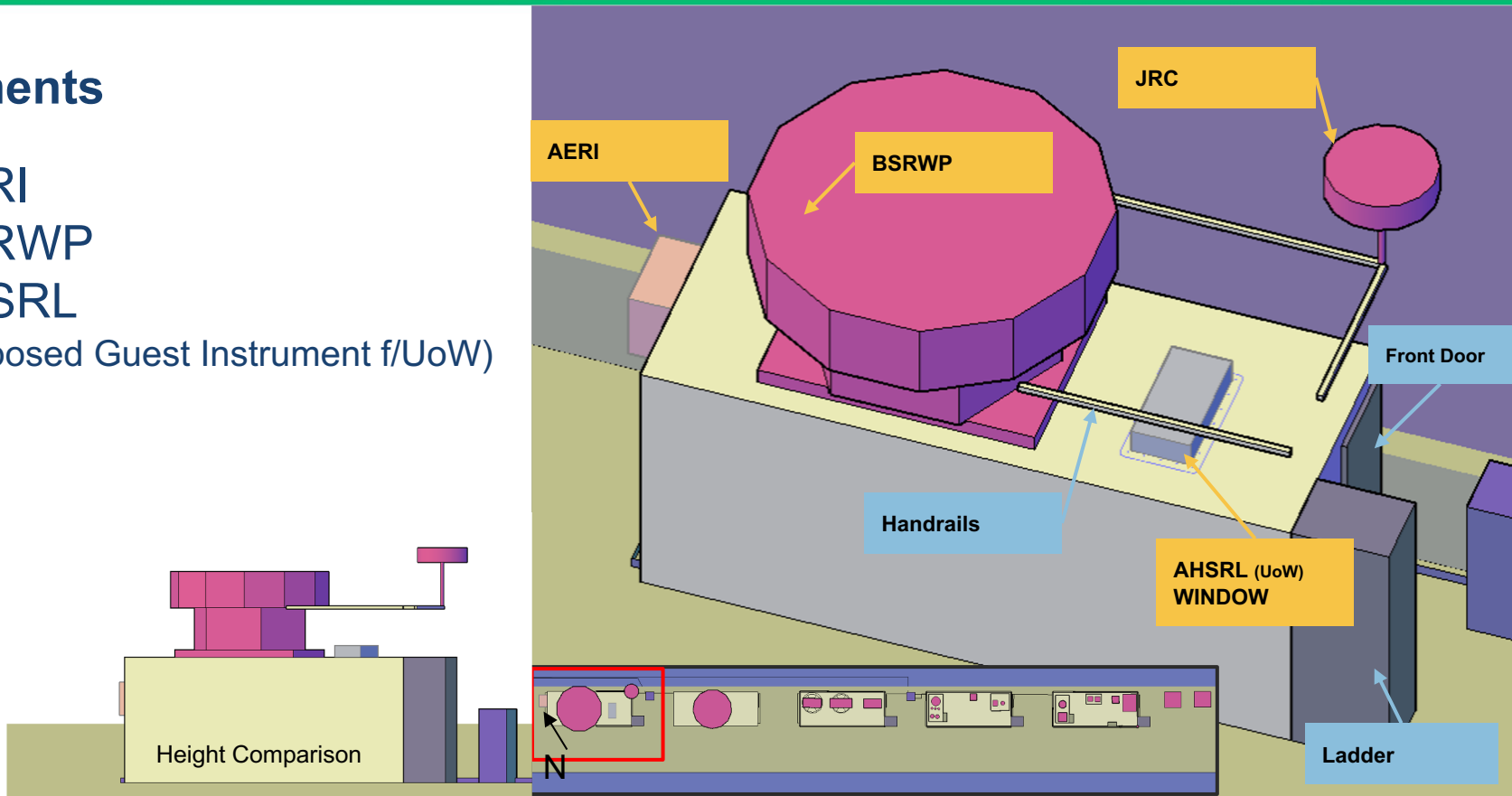
Details on Instrument Layout

- The following slides depict locations of individual groups of instruments and shelters.

Remote Sensing Container

Instruments

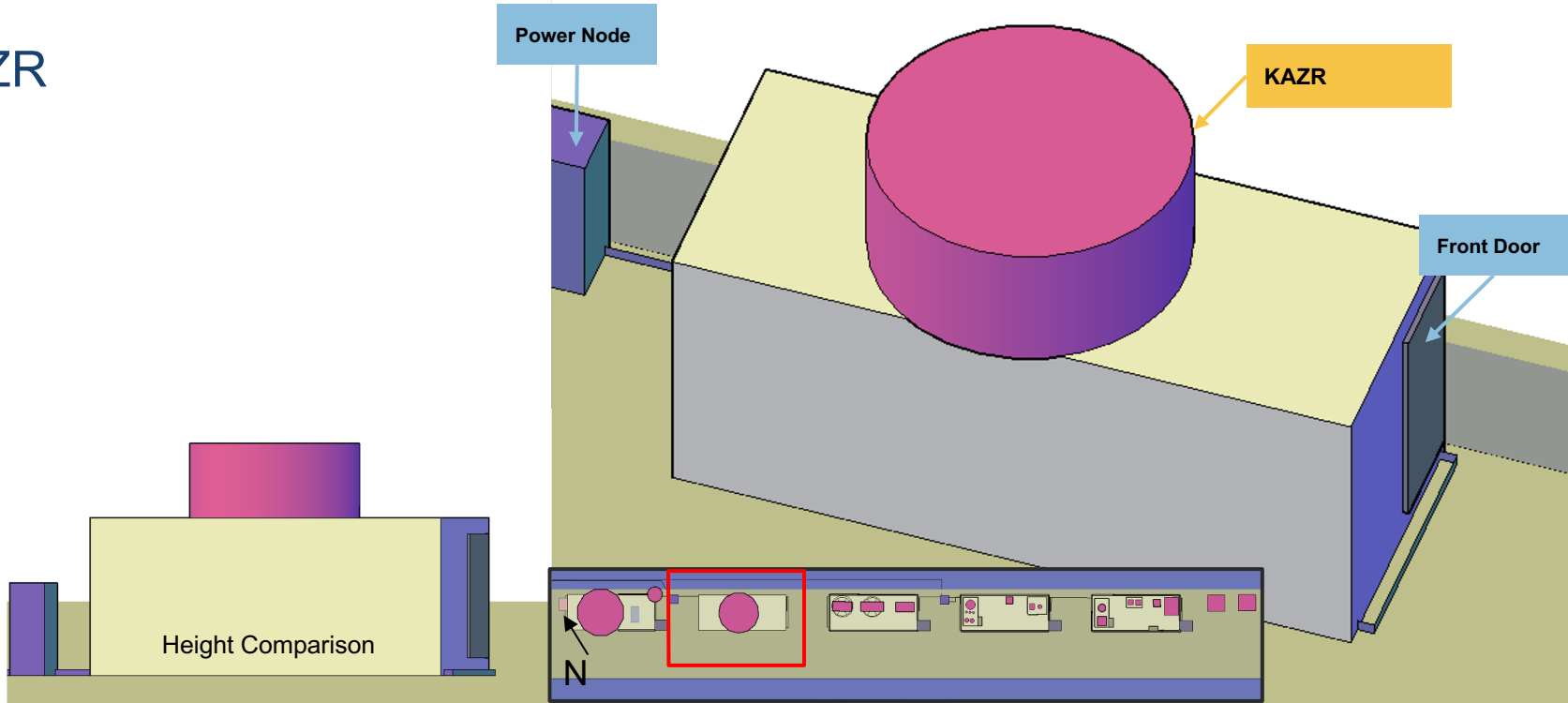
- AERI
- BSRWP
- AHSRL
  (Proposed Guest Instrument f/UoW)



KAZR Container

Instruments

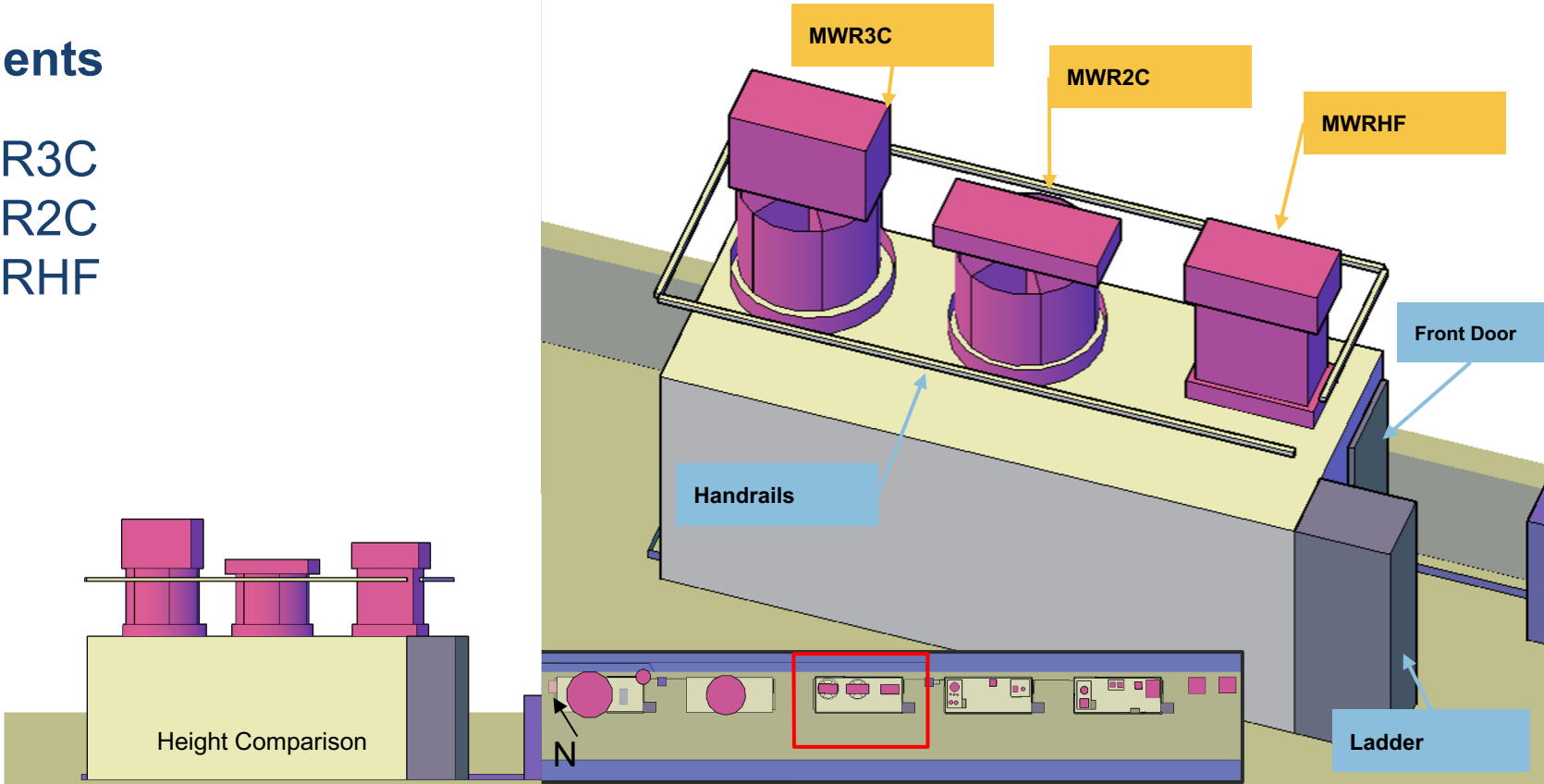
- KAZR



GP Container

Instruments

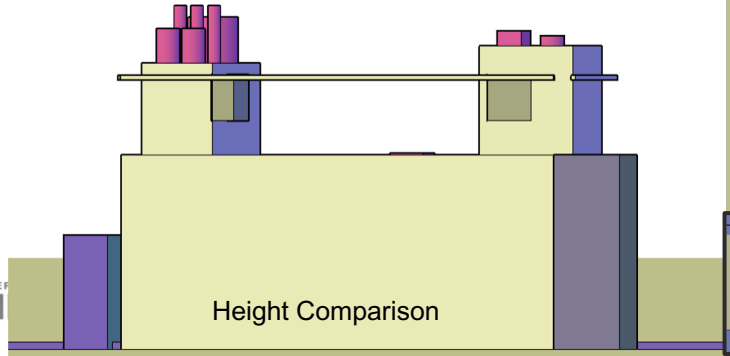
- MWR3C
- MWR2C
- MWRHF

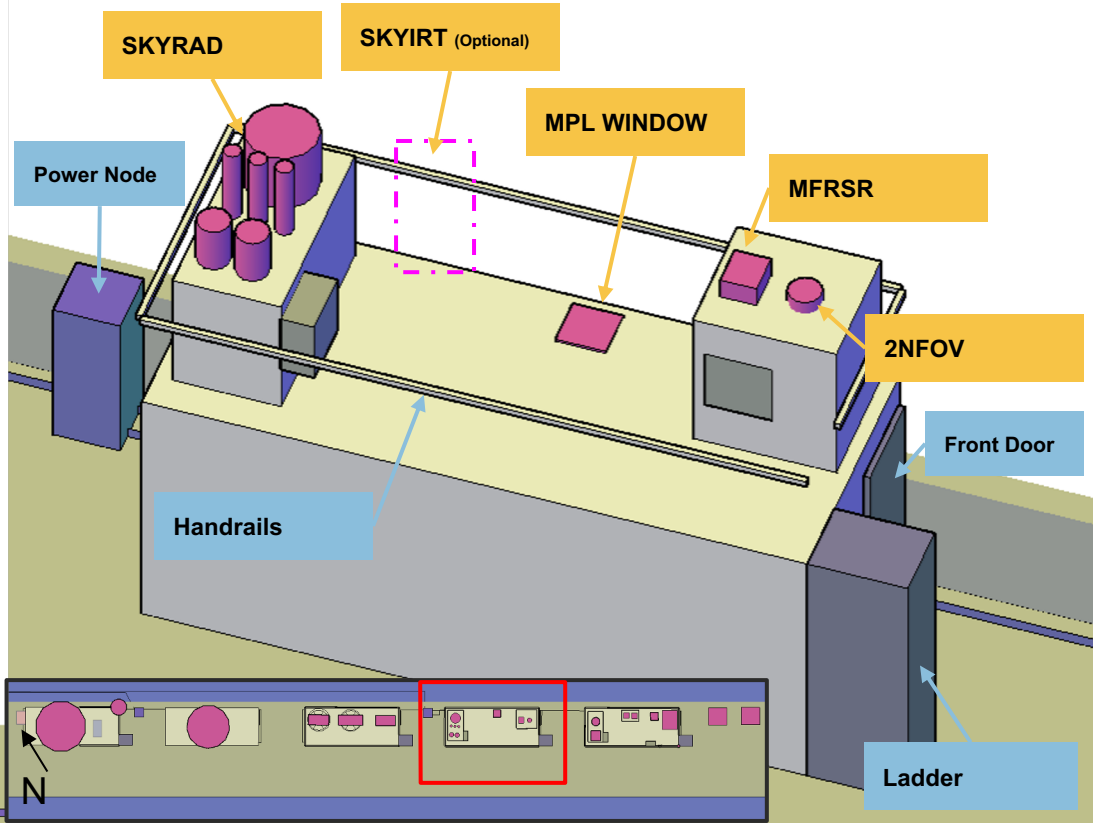


Radiometry: SkyRad, MFRSR

Instruments

- SKYRAD
- SKYIRT (Optional, not pictured)
- MPL
- MFRSR
- 2NFOV

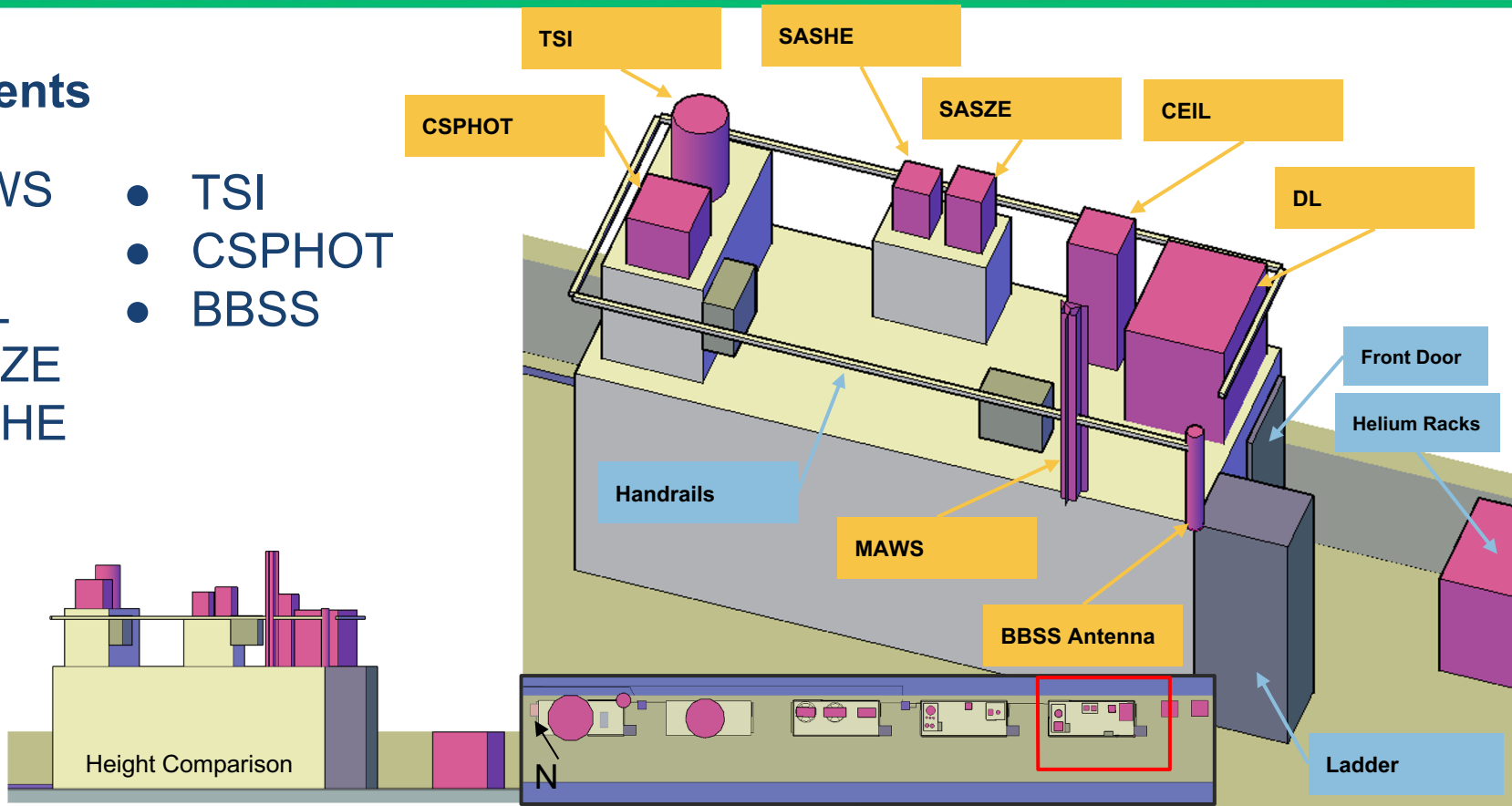




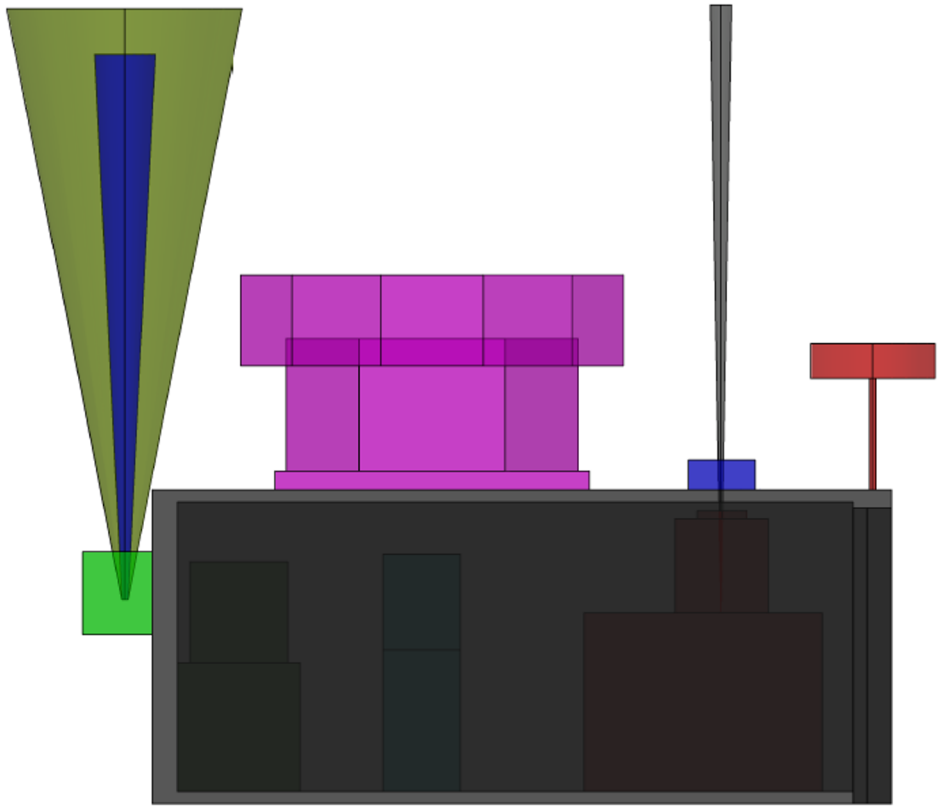
SAS Container

Instruments

- MAWS
- DL
- CEIL
- SASZE
- SASHE
- TSI
- CSPHOT
- BBSS



AERI/BSRWP/AHSRL FOV



Quick Dimensions

- MWR heights above handrail system:
  - MWR3C: 5”
  - MWR2C: 1”
  - MWRHF: 5”
- 10’ distance between containers
- 125m between SKYRAD and GNDRAD
- GNDRAD, MFR, and SEBS will be 37.5’ above the water on average
- Boom arm length estimated at 25’ based on google earth photos
- Instruments on the pumphouse poles will be roughly 8’ above the pumphouse